

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered). Please AMEND claims 46 - 51, 54, 55, 58, 61, 62, 65, 66, 68, 69 and 71 in accordance with the following:

1 - 45 (**cancelled**)

46. (**currently amended**) An optical disc comprising:

first and second recording layers on which data are recordable and/or reproducible, the first and second recording layers having opposite track spiral ~~directions, wherein~~ directions and physical addresses recorded thereon; and

recorded addresses of smallest recording units recorded on the optical disc, wherein:

the recorded addresses are recorded during recording of the smallest recording units on the optical disc, and

on the first and second recording layers, a physical address of smallest recording units increases or decreases together with an the recorded addresses increase or decrease together of the smallest recording units recorded during recording on the disc with the physical addresses.

47. (**currently amended**) The optical disc of claim 46, wherein:

on the first recording layer the ~~recording-recorded~~ addresses and the physical addresses increase together from an inner radius of the disc to an outer radius of the optical disc; and

on the second recording layer, the ~~recording-recorded~~ addresses and the physical addresses increase together from the outer radius of the disc to the inner radius of the optical disc.

48. **(currently amended)** An optical disc, comprising:

first and second recording layers on which data are recordable and/or reproducible, the first and second recording layers having opposite track spiral ~~directions, wherein~~directions and physical addresses recorded thereon; and

recorded addresses of smallest recording units recorded on the optical disc, wherein:

the recorded addresses are recorded during recording of the smallest recording units on the optical disc, and

on at least one the first and second recording layers, ~~a physical address of smallest recording units and an address of the smallest recording units recorded during recording on the disc~~the recorded addresses and the physical addresses increase or decrease oppositely.

49. **(currently amended)** The optical disc of claim 48, wherein:

on the first recording layer, the ~~recording-recorded addresses~~increases-increase as the physical addresses ~~decreases-decrease~~ from an inner radius of the disc to an outer radius of the disc; and

on the second recording layer, the ~~recording-recorded addresses~~increases-increase as the physical addresses ~~decreases-decrease~~ from the outer radius of the disc to the inner radius of the disc.

50. **(currently amended)** An optical disc drive comprising:

an optical disc comprising:

first and second recording layers on which data are recordable and/or reproducible and having physical addresses recorded thereon, and

recorded addresses of smallest recording units recorded on the optical disc,
wherein;

the recorded addresses are recorded during recording of the smallest recording units, and

on the first and second recording layers, ~~a-the recorded addresses physical address of smallest recording units increases or decreases~~increase or decrease together with an ~~address of the smallest recording units recorded during recording on the disc~~the physical addresses; and

a reader/writer which reads and/or writes data the smallest recording units to/from the optical disc.

51. **(currently amended)** The optical disc drive of claim 50, wherein:
on the first recording layer, the ~~recording~~recorded addresses and the physical addresses increase or decrease from an inner radius of the optical disc to an outer radius of the optical disc; and
on the second recording layer, the ~~recording~~recorded addresses and the physical addresses increase or decrease from the outer radius of the optical disc to the inner radius of the optical disc.

52. **(previously presented)** The optical disc drive of claim 51, wherein:
the first and second recording layers have a same track spiral direction.

53. **(previously presented)** The optical disc drive of claim 51, wherein the first and second recording layers have an opposite track spiral direction.

54. **(currently amended)** An optical disc drive, comprising:
an optical disc comprising:
first and second recording layers on which data are recordable and/or reproducible and having physical addresses recorded thereon, and
recorded addresses of smallest recording units recorded on the optical disc
wherein:
the recorded addresses are recorded during recording of the smallest recording units on the disc, and
on at least one of the first and second recording layers, the recorded addresses and the physical addresses ~~a physical address of smallest recording units and an address of the smallest recording units recorded during recording on the disc~~ increase or decrease oppositely; and
a reader/writer which reads and/or writes data to/from the disc.

55. **(currently amended)** The optical disc drive of claim 54, wherein:
on the first recording layer, the ~~recording address decreases~~recorded addresses decrease as the physical addresses ~~increases~~increase from an inner radius of the optical disc to an outer radius of the optical disc; and
on the second recording layer, the ~~recording address~~recorded addresses decrease

~~decreases~~ as the physical addresses ~~increases~~ increase from the outer radius of the optical disc to the inner radius of the optical disc.

56. **(previously presented)** The optical disc drive of claim 55, wherein the first and second recording layers have a same track spiral direction.

57. **(previously presented)** The optical disc drive of claim 55, wherein the first and second recording layers have an opposite track spiral direction.

58. **(currently amended)** The optical disc drive of claim 54, wherein:
on the first recording layer, the ~~recording~~ recorded addresses ~~increases~~ increase as the physical addresses ~~decreases~~ decrease from an inner radius of the optical disc to an outer radius of the optical disc; and
on the second recording layer, the ~~recording~~ recorded addresses ~~increases~~ increase as the physical addresses ~~decreases~~ decrease from the outer radius of the optical disc to the inner radius of the optical disc.

59. **(previously presented)** The optical disc drive of claim 58, wherein:
the first and second recording layers have a same track spiral direction.

60. **(previously presented)** The optical disc drive of claim 58, wherein the first and second recording layers have an opposite track spiral direction.

61. **(currently amended)** A method of assigning recorded addresses of smallest recording units recorded during recording on an optical disc having first and second recording layers and physical addresses recorded thereon, the method comprising:
assigning the ~~recording~~ recorded addresses so that the ~~recording~~ recorded addresses ~~increases~~ increase or ~~decreases~~ decrease together with a ~~the~~ physical addresses ~~during recording on the disc~~.

62. **(currently amended)** The method of claim 61, further comprising:
assigning the ~~recording~~ recorded addresses on the first recording layer so that the recording addresses and the physical addresses increase or decrease from an inner radius of the disc to an outer radius of the disc; and

assigning the ~~recording~~recorded addresses on the second recording layer so that the ~~recording~~recorded addresses and the physical addresses increase or decrease from the outer radius of the disc to the inner radius of the disc.

63. **(previously presented)** The method of claim 62, wherein:
the first and second recording layers have a same track spiral direction.

64. **(previously presented)** The method of claim 62, wherein the first and second recording layers have an opposite track spiral direction.

65. **(currently amended)** A method of assigning recorded addresses of smallest recording units recorded during recording on an optical disc having first and second recording layers and physical addresses recorded thereon, the method comprising:

assigning the recorded addresses so that on at least one of the first and second recording layers, the recorded addresses and the physical addresses increase or decrease oppositely.

66. **(currently amended)** The method of claim 65, further comprising:
assigning the ~~recording~~recorded addresses on the first recording layer so that the ~~recording~~recorded addresses ~~decreases~~decrease as the physical addresses ~~increases~~increase from an inner radius of the disc to an outer radius of the disc; and
assigning the ~~recording~~recorded addresses on the second recording layer so that the recording addresses ~~decreases~~decrease as the physical addresses ~~increases~~increase from the outer radius of the disc to the inner radius of the optical disc.

67. **(previously presented)** The method of claim 66, wherein:
the first and second recording layers have a same track spiral direction.

68. **(currently amended)** The optical disc drive of claim ~~55~~66, wherein the first and second recording layers have an opposite track spiral direction.

69. **(currently amended)** The method of claim 65, further comprising:
assigning the ~~recording~~recorded addresses so that on the first recording layer the ~~recording~~recorded addresses ~~increases~~increase as the physical addresses ~~decreases~~

decrease from an inner radius of the disc to an outer radius of the disc; and
assigning the ~~recording~~recorded addresses on the second recording layer so that the
~~recording~~recorded addresses ~~increases~~increase as the physical addresses ~~decreases~~
decrease from the outer radius of the disc to the inner radius of the disc.

70. **(previously presented)** The optical disc drive of claim 69, wherein:
the first and second recording layers have a same track spiral direction.

71. **(currently amended)** The optical disc drive of ~~claim 70~~claim 69, wherein the first
and second recording layers have an opposite track spiral direction.